

CLY FLB030

CLY Security Light User Manual

Brand: CLY | Model: FLB030

1. INTRODUCTION

Thank you for choosing the CLY 30W Motion Sensor Outdoor Security Light. This floodlight is designed to provide reliable and energy-efficient illumination for your outdoor spaces, such as gardens, garages, doorways, and yards. Featuring a sensitive PIR motion sensor and a durable, waterproof design, it enhances security and convenience around your property. This manual provides essential information for safe installation, operation, and maintenance of your new security light.

2. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installation and use. Retain this manual for future reference.

- **Electrical Safety:** This product features a unique plastic-coated aluminum shell design, providing double-layer safety protection and eliminating the need for an earth wire. Despite this, all electrical work should be performed by a qualified electrician or in accordance with local electrical codes. Ensure power is disconnected at the main circuit breaker before installation or maintenance.
- **Installation Location:** Install the light in a location where it is protected from direct impact and excessive vibration. Ensure the mounting surface is stable and can support the weight of the fixture.
- **Waterproof Rating:** The light fixture is IP66 rated, and the sensor head is IP65 rated, ensuring protection against dust and powerful water jets. It is suitable for outdoor use in various weather conditions, including rain and snow.
- **Heat:** The light fixture will generate heat during operation. Do not touch the light surface when it is on or immediately after it has been turned off. Ensure adequate ventilation around the fixture.
- **Light Source:** Do not stare directly into the LED light source when it is illuminated, as this may cause eye strain or damage.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- CLY 30W Motion Sensor Security Light (1 unit)
- Mounting Bracket (pre-attached)
- Screws and Wall Plugs (for installation)
- User Manual (this document)



Image 3.1: Contents of the CLY Security Light package, including the light unit, pre-attached bracket, and mounting hardware.

4. PRODUCT OVERVIEW

The CLY 30W Motion Sensor Security Light integrates a powerful LED floodlight with an infrared PIR motion sensor. Its design focuses on simplicity and effectiveness for outdoor security lighting.

- **LED Floodlight:** Provides 2820 lumens of 6500K cold white light, offering bright and wide illumination.
- **PIR Motion Sensor:** Detects movement within a 0-12 meter range and a 120°-180° detection angle, activating the light automatically. The sensor head can rotate 180° vertically and horizontally for optimal positioning.
- **Fixed Operation:** This security light is designed to operate only at night and has a fixed lighting duration of 30 seconds per activation. There are no adjustable buttons for time or day/night settings.
- **Adjustable Bracket:** The robust mounting bracket allows for 180° adjustment, enabling flexible installation on walls, ceilings, or ground.
- **Durable Construction:** Made from plastic-coated aluminum, ensuring good heat dissipation, corrosion resistance, and enhanced insulation for safety.

Fixed Lighting Mode

NOT Adjustable for Light Time or Night/Day Setting

TIME 30s Lighting Time(Fixed)



30S OFF



MODE Only Work at Night(Fixed)



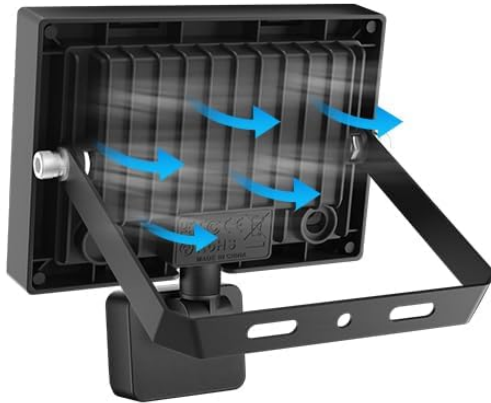
Image 4.1: Illustration of the fixed 30-second lighting time and night-only operation of the security light.

Good Quality Security Lights



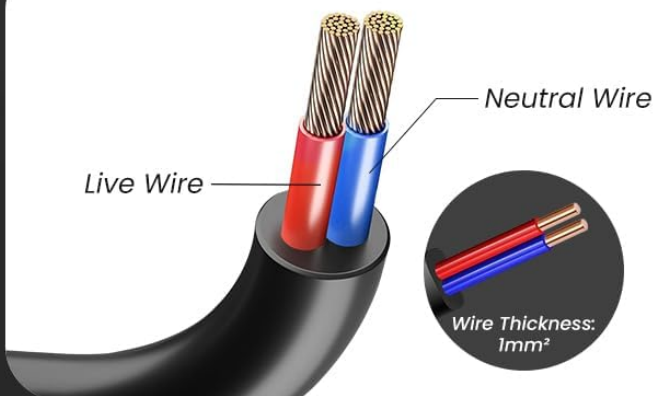
High-Quality Nanomaterials

Nanomaterials are stronger, more transparent, have better light penetration, and are brighter



Excellent Heat Dissipation

Plastic-coated aluminum material, lighter and thinner, better heat dissipation and corrosion resistance



NOTICE: NO EARTH WIRE

The shell is made of **Plastic-Coated Aluminum**, double-insulated, and can be used safely and normally **without the earth wire**

Image 4.2: Features of the security light including durable materials, efficient heat dissipation, and the unique no-earth-wire design.

5. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	FLB030
Wattage	30W
Lumen Output	2820 LM
Color Temperature	6500K Cold White
Waterproof Rating	IP66 (Light Fixture), IP65 (Sensor Head)
Motion Sensing Distance	0-12 meters
Motion Sensing Angle	120°-180°
Lighting Time	30 seconds (Fixed)
Operation Mode	Night Only (Fixed)
Product Dimensions	14.5 x 5.8 x 17 cm
Item Weight	0.46 Kilograms
Material	Plastic-coated Aluminum
Wire Length	1 meter (approx. 3.28 ft)
Wire Thickness	1mm ²

30S Lighting Time 50W Super Bright Security Light

Bring Brightness and Safety to your Family



56 LED
Super Bright



50W=
400W



6500K
Cold White



4700LM



Only Work at
Night (Fixed)



30S Lighting
Time (Fixed)

Detection Range: 180°

Lighting Range: 120°

0-12M sensing distance (Not Adjustable)

Recommended Installation Height: 5M-7M

Optimal Lighting Area: >8*8M²

Image 5.1: Visual representation of the light's detection and lighting ranges, along with recommended installation height.

6. SETUP AND INSTALLATION

Follow these steps for safe and proper installation of your CLY Security Light.

6.1 Before Installation

- **Disconnect Power:** Always turn off the power supply at the main circuit breaker before beginning any electrical work.
- **Choose Location:** Select an outdoor location that provides the desired lighting coverage and motion detection. The recommended installation height is 3-5 meters (approx. 9.8-16.4 feet) for optimal performance.
- **Mounting Surface:** Ensure the mounting surface is sturdy enough to support the light fixture and is free from obstructions.

6.2 Wiring Instructions (NO EARTH WIRE Design)

This security light is designed with a plastic-coated aluminum housing that provides double insulation, eliminating the need for an earth wire. This enhances safety and simplifies installation.

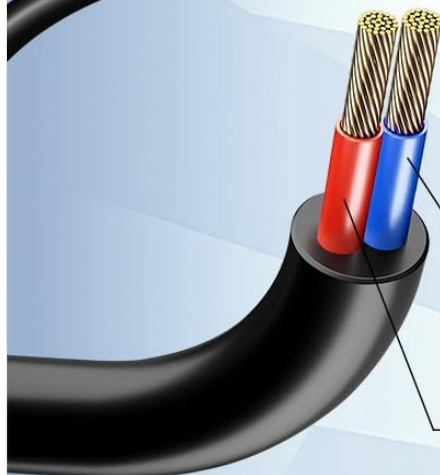
1. Identify the Live (brown) and Neutral (blue) wires from your mains power supply.
2. Connect the brown wire from the light fixture to the Live wire of your mains supply.
3. Connect the blue wire from the light fixture to the Neutral wire of your mains supply.
4. Secure all connections with appropriate electrical connectors (not supplied). Ensure no bare wires are exposed.

NO EARTH WIRE

(Plastic-Coated Aluminum Housing)

Plastic coated aluminum housing,

insulated outer shell to prevent current leakage, internal aluminum structure to ensure heat dissipation. This dual material design surpasses traditional metal lamps in terms of safety and durability.



Neutral Wire

Live Wire

Using insulation technology, **NO EARTH WIRE**, while preventing electric shock, it can be used safely

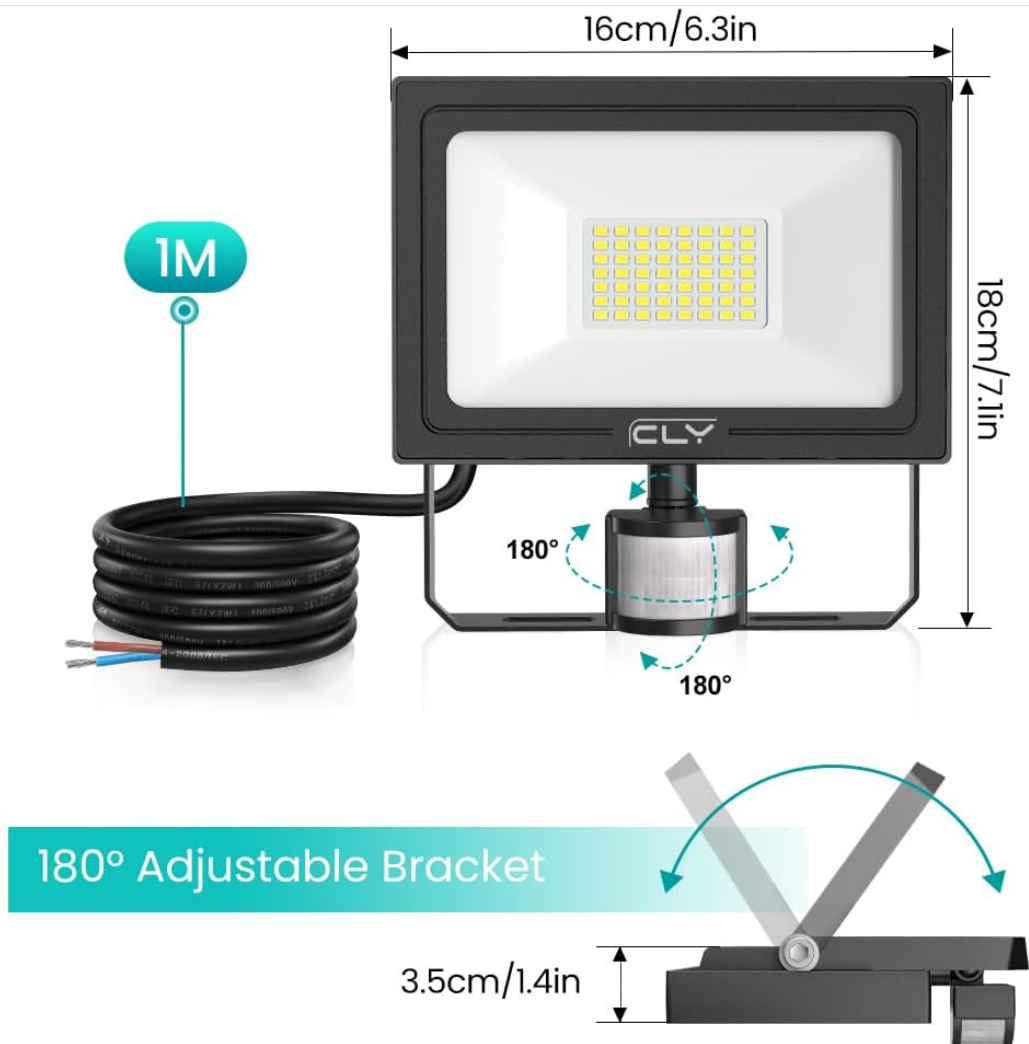
Image 6.1: Illustration of the two-wire connection (Live and Neutral) and the insulated housing that negates the need for an earth wire.

6.3 Mounting the Light

The adjustable bracket allows for various installation methods:

1. Mark the drilling points on your chosen surface using the mounting bracket as a template.
2. Drill holes at the marked points. Insert the provided wall plugs if installing on masonry or concrete.
3. Secure the mounting bracket to the surface using the provided screws.

4. Adjust the angle of the light fixture and the motion sensor head to achieve the desired coverage and detection area. The bracket can be adjusted 180°, and the sensor head can rotate 180° up and down.



Multiple Installation Methods



Ceiling Installation



Wall Installation



Ground Installation

Image 6.2: Demonstrates the 180° adjustable bracket and various installation options including ceiling, wall, and ground mounting.

6.4 Final Steps

- Once installation is complete and all connections are secure, restore power at the main circuit breaker.
- Test the light by walking into the detection area after dark. The light should illuminate for 30 seconds.

7. OPERATING INSTRUCTIONS

The CLY Security Light is designed for simple, automatic operation.

- **Automatic Activation:** The integrated PIR motion sensor will automatically detect movement within its range (0-12 meters) when it is dark.
- **Night-Only Operation:** The light is designed to function exclusively at night. It will not activate during daylight hours, conserving energy.
- **Fixed Lighting Duration:** Once activated by motion, the light will remain on for a fixed duration of 30 seconds. If motion is continuously detected within this period, the light will remain on until motion ceases, then turn off after 30 seconds.
- **No Adjustments:** Please note that there are no buttons or dials to adjust the lighting time or the day/night sensitivity. These settings are fixed for optimal security and energy efficiency.



Image 7.1: Illustrates the motion sensor's detection capabilities and the fixed 30-second lighting duration, operating only at night.

Energy-Saving 30s Light Night Security Light (FIXED)

30S LIGHT TIME (FIXED ONLY NIGHT) can provide you with safety while reducing unnecessary expenses. It is very suitable for simple operation, eliminating the need for complex adjustment functions, and can be used directly after installation.



Image 7.2: Example of the security light providing illumination for a driveway at night, demonstrating its energy-saving fixed operation.

8. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your security light.

- **Cleaning:** Periodically clean the light fixture and sensor lens with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish or sensor. Ensure the power is off before cleaning.
- **Inspection:** Regularly inspect the wiring and mounting for any signs of wear, damage, or loosening. Address any issues promptly.
- **Weather Resistance:** The IP66 rating ensures the light is highly resistant to outdoor elements. However, extreme weather conditions may still require occasional checks.

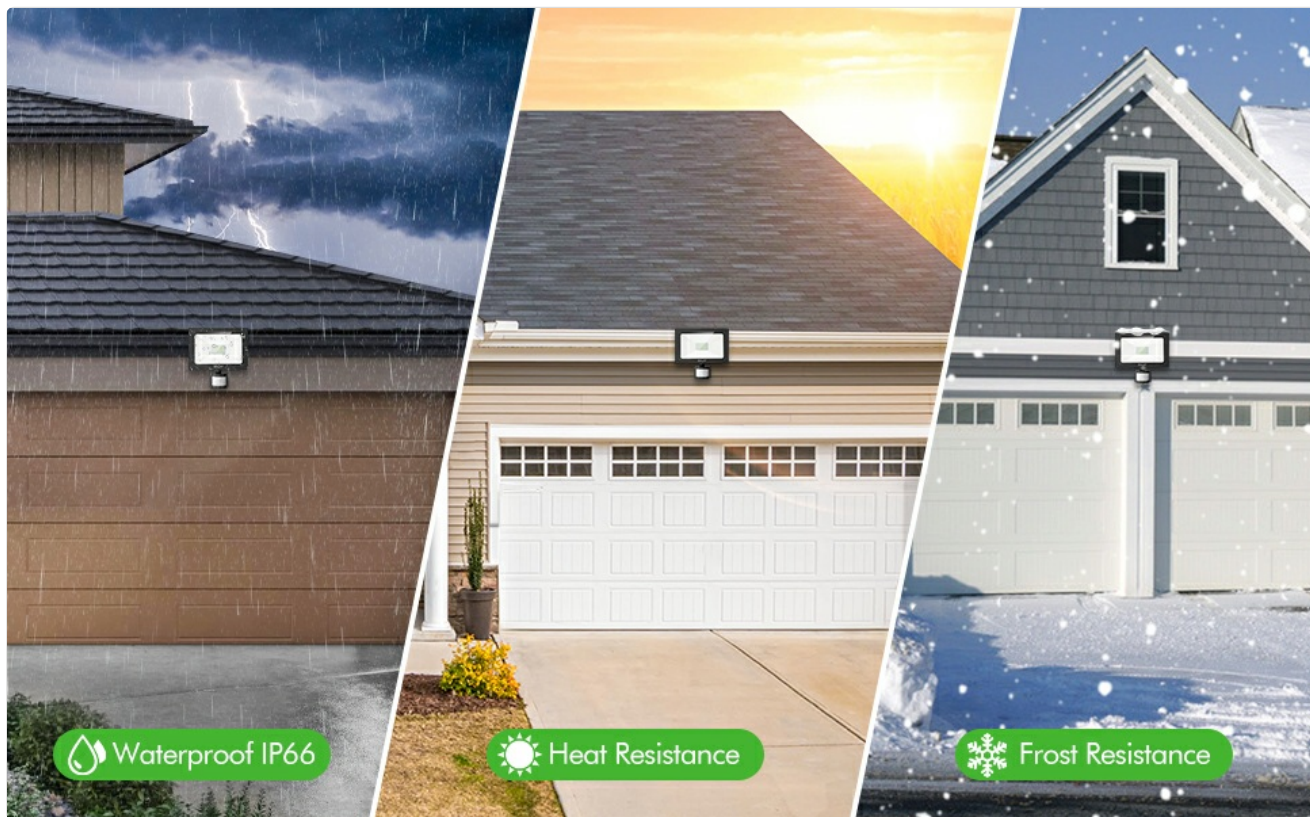


Image 8.1: Demonstrates the light's robust weather resistance, including protection against rain, heat, and frost.

9. TROUBLESHOOTING

If you encounter issues with your CLY Security Light, refer to the following common problems and solutions:

Problem	Possible Cause & Solution
Light does not turn on at night.	<ul style="list-style-type: none"> ◦ No power: Check the circuit breaker and ensure the light is properly wired and receiving power. ◦ Sensor obstructed: Ensure the motion sensor lens is clean and not blocked by dirt, debris, or objects. ◦ Still daylight: The light only operates at night. Test after dark. ◦ No motion: Ensure motion is occurring within the sensor's detection range.

Problem	Possible Cause & Solution
Light stays on continuously or turns on randomly.	<ul style="list-style-type: none">◦ Constant motion: Ensure there isn't continuous motion (e.g., tree branches, pets, traffic) within the sensor's detection area.◦ Sensor interference: Strong winds or rapid temperature changes can sometimes trigger the sensor.◦ Sensor fault: If the issue persists despite checking for external factors, the sensor may be faulty. Contact customer support for assistance.
Light is not bright enough.	<ul style="list-style-type: none">◦ Dirt on lens: Clean the LED lens and reflector.◦ Incorrect wattage: Ensure you have the 30W model as expected.
Motion detection range is too short/long.	<ul style="list-style-type: none">◦ Sensor angle: Adjust the angle of the motion sensor head to optimize the detection area.◦ Installation height: Ensure the light is installed at the recommended height of 3-5 meters.

If you are unable to resolve the issue using the above steps, please contact CLY customer support for further assistance.

10. WARRANTY AND SUPPORT

CLY is committed to providing high-quality products and excellent customer service.

- **Warranty:** We provide a 2-year replacement service for our products. This warranty covers defects in materials and workmanship under normal use.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please refer to the Service Email Address provided on the product packaging or contact us through Amazon. We aim to reply within 24 hours.

Your satisfaction is our priority. Please do not hesitate to reach out if you experience any issues with your CLY Security Light.